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**ABSTRACT:**

**PURPOSE:** To provide a color matching apparatus which can obtain a highly accurate color matching formula simply and readily only by inputting color data provided in a target color even for a target color having a region wherein the dyeing density does not necessarily has the linear relationship with color- formula concentration.

**CONSTITUTION:** A learning circuit means 4 is a circuit called a neural network which simulates the neuron network of organism. The neural network part 4 learns the color formula of a sample for learning based on the color data of the learning sample inputted from a color measuring device 1 through an operation control part 5 of a control unit 3 and the formula data of the learning sample inputted from a formula input device 2 through the operation control part 5. The result of the learning is stored in a data memory device 6. When the color data of a target color is inputted from the color measuring device 1, the learning circuit means 4 whose learning is finished outputs the formula data into an output device 7.

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